

1. A suspension system for a motorcycle,  
comprising:
- a. a motorcycle main frame;
  - b. a swing arm pivotally mounted to the motorcycle main frame about a pivot axis;
  - c. an air-bag suspension system, wherein the swing arm has a pair of wheel mounts located on a wheel axis spaced to receive the rear wheel, wherein the swing arm further includes pairs of arms extending from each of the wheel mounts and connectors connecting each pair of arms, wherein each connector is joined to the other connector by an upper transverse cross member and a lower transverse cross member and, wherein an intermediate transverse cross member extends along the swing arm pivot axis and through the connectors and is secured to the struts of the motorcycle main frame.

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